

A Fascinating Fact by Oyler

The entries at 5ac, 7ac, 8ac and 11ac all belong to a well-known set of numbers. The entry at 1ac is half of the product of four of them and also belongs to a different well-known number set. This set should be written below the grid. As further confirmation the sum of the entered digits is also a member of this set. No entry starts with zero and all entries are distinct.

1		2	3		4
5	6			7	
		8			
9		10		11	

Across

- 1 *see preamble*
- 5 prime
- 7 triangular
- 8 heptagonal
- 9 palindrome
- 10 cube
- 11 prime

Down

- 1 cube
- 2 strictly descending digits
- 3 strictly ascending digits
- 4 cube
- 6 product of 3 consecutive primes
- 7 twice a square